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PN -  US6542143 B1 20030401 [US6542143]

TI - (B1) Method and apparatus for driving the display device, display system, and data processing device

PA - (B1) SEIKO EPSON CORP (JP)

PA0 - Seiko Epson Corporation, Suwa [JP]

IN - (B1) OZAWA TOKUROH (JP)

AP - US94552298 19980205 [1998US-0945522]

FD - PCT/JP97/00609 19970228 [1997WO-JP00609]
WO97/32295 19970904 [WO9732295]

PR - JP6730496 19960228 [1996JP-0067304]
WOJP9700609 19970228 [1997WO-JP00609]

IC - (B1) G09G-003/36 H04N-005/202

EC - G09G-003/36C14A

ICO - S09G-201/02
S09G-202/16

PCL - ORIGINAL (O) : 345098000; CROSS-REFERENCE (X) : 345089000
345092000 345205000 348674000 348792000

DT - Basic (replaces original non EP official language basic.)

CT - US4845482; US4873516; US5250931; US5604511; US5625373; US5739816;
US5764216; US5796384; US5933199; US5940057; US6023257; GB2-217-128;
JP57052228 A; JP58097918 A; JP59107628 A; JP6210696 A; JP6382228 U;
JP1233919 A; JP335218 A; JP389393 A; JP3190429 A; JP3214818 A; JP411282
A; JP4502520 A; JP4-195189; JP4268818 A; JP5102857 A; JP5281920 A;
JP5303080 A; JP6059648 A; JP695619 A; JP6152424 A; JP6222741 A;
JP6268522 A; JP7295520 A; JP7295521 A; JP8237125 A; JP8286641 A

STG - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

AB - It is an object to provide a high-performance display element driving device or the like which can be easily reduced in power consumption and scale. A display element driving device (100) drives a liquid crystal serving as a capacitive display element. A D/A converter (110) includes first to Nth charge storage sections (112-1) to (112-N) for receiving first to Nth digital data corresponding an image signal and storing charges corresponding to the values of the first to Nth digital data, and first to Nth connection sections (114-1) to (114-N) for electrically connecting the first to Nth charge storing sections (112-1) to (112-N) and an electrode line (130) to each other and discharging the stored charges to the electrode line (130) at a given timing. In this manner, GAMMA -correction of a liquid crystal and D/A conversion can be simultaneously performed, and conversion from RGB to YUV and D/A conversion can be simultaneously performed.

UP - 2003-15

1/1 LGST - ©EPO

PN -  US6542143 B1 20030401 [US6542143]
AP - US94552298 19980205 [1998US-0945522]
ACT - 20050913 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20040203
UP - 2005-37

1/1 CRXX - ©CLAIMS/RRX

PN -  6,542,143 A 20030401 [US6542143]
PA - Seiko Epson Corp JP
ACT - 20040203 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20050913
REISSUE REQUEST NUMBER: 10/773703
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2673

Reissue Patent Number:

Search statement 3

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6542143

April 1, 2003

LEXIS-NEXIS
Library: PATENTS
File: ALL

Method and apparatus for driving the display device, display system, and data processing device

REISSUE: February 3, 2004 - Reissue Application filed Ex. Gp.: 2673; Re. S.N. 10/773,703 (O.G. September 13, 2005)

APPL-NO: 945522 (08)

FILED-DATE: February 5, 1998

GRANTED-DATE: April 1, 2003

CORE TERMS: digital, voltage, display, converter, storage, electrode, driver, capacitor, conversion, driving ...

6,542,143 OR 6542143

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Please state how the terms or keyword strings should relate to one another.

Title of the Invention _____

Inventor(s) _____

US 6,542 + 143

Earliest Priority date to be used _____

2,7. Search

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